

**TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL**

NASA/GODDARD SPACE FLIGHT CENTER

**REQUEST FOR TASK PLAN / TASK ORDER**

<b>CONTRACTOR</b>	<b>CONTRACT NO./TASK NO.</b>	<b>JOB ORDER NUMBER</b>	<b>APPROP. FY</b>
QSS Group, Inc.	NASS- <b>99124</b> TASK NO. <b>286</b> AMENDMENT	454-218-80-20-89	00 & 01

**TASK TITLE:** (NTE 80 characters; include Project name)

**TDRS H Performance Verification and Technology Application**

**APPROVALS:** (Type or print name and sign)

<b>ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)</b>	<b>DATE</b>	<b>ORG CODE</b>	<b>MAIL CODE</b>	<b>PHONE</b>
Anthony B. Comberiate		454	454	301-286-8520
<b>BRANCH HEAD</b>	<b>DATE</b>	<b>CODE</b>	<b>PHONE</b>	
Anthony B. Comberiate <i>[Signature]</i>	6/5/00	454	301-286-8520	
<b>CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)</b>	<b>DATE</b>	<b>CODE</b>	<b>PHONE</b>	
Robert S. Leblair <i>[Signature]</i>	6/5/00	560	301-286-6588	
<b>FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?</b> (IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)	<b>CONTRACTING OFFICER'S QUALITY REP.</b>		<b>DESIGNATED FAM:</b>	
(X) NO      ( ) YES				

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reqs and Certs.

(To be completed by Contracting Officer)

**C.O. Requested Quote on:**

**Date:**

Contractor will develop specification or statement of work under this task for a future project (X) NO ( ) YES

Flight hardware will be shipped to GSFC for testing prior to final delivery ( ) NO ( ) YES (X) N/A

Government Furnished Property/Facility (X) NO ( ) YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance: ( ) NO (X) YES      If yes: (X) TOTAL ( ) PARTIAL  
If partial, indicate onsite work in SOW by asterisk (\*)

Surveillance Plan Attached: (X) NO ( ) YES

Highlighted Contract Clauses: (to be completed by Contracting Officer)

The effective start date of this task is in the Contracting Officer's Signature Box Below.

**INCENTIVE FEE STRUCTURE** (check one)

(See Contract NASS-99124, Attachment K, Incentive Fee Plan)

	No. 1	No. 2	X No. 3	No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(to be completed by Contracting Officer)

The target cost of this task order is \$ 130,837.

The target fee of this task order is \$ 926.

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 131,763.

The maximum fee is \$ 1,353.

The minimum fee is \$0.

**AUTHORIZED SIGNATURE:**

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

*[Signature]*      7/4/00  
SIGNATURE OF CONTRACTING OFFICER      DATE

**ELIZABETH J. AUSTIN**  
**CONTRACTING OFFICER**

TYPED NAME OF CONTRACTING OFFICER

**CONTRACTOR'S ACCEPTANCE:**

AUTHORIZED SIGNATURE

DATE

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QSS Group, Inc.	NAS5- 99124	286	

Applicable paragraphs from contract Statement of Work: Function 2B

**STATEMENT OF WORK:**

This effort provides for research, analyses and delivery of expert advice to the TDRS Project in the areas of on-orbit TDRS-H performance verification and the application of TDRS technologies to interplanetary data relay infrastructures.

In support of these activities the contractor shall perform the following:

1. The contractor shall expand prior analyses of TDRS technology application to an interplanetary data relay infrastructure to include the impact of Code S initiatives to restructure the Mars exploration program. The contractor shall present results of prior analysis as required. The contractor shall complete examination of the previously developed infrastructure to include revision of spacecraft and payload design, operations concept definition, and cost estimates.
2. The contractor shall support the evaluation of TDRS-H on-orbit performance verification. Specifically, the contractor shall be required to travel to attend briefings, witness and participate in on-orbit calibration and performance tests, and execute ancillary investigations in the area of TDRS-H payload and antenna performance. The contractor shall support anomaly investigations as required. The contractor shall devise alternative test concepts and/or operational work around for areas not meeting performance requirements.

The contractor shall prepare and submit a monthly report summarizing accomplishments and planned activities for each item above. The contractor shall prepare and deliver a final report for all work under the items above.

**PERFORMANCE SPECIFICATIONS:**

All reports and presentations developed under this activity shall be clear, concise and accompanied by backup, background, and analysis information as necessary.

**APPLICABLE DOCUMENTS:**

AIAA publication on the application of TDRS technologies to a Mars data relay infrastructure.  
TDRS-H on-orbit Test plans and procedures.

**TASK END DATE:** 4/30/01**MILESTONES/DELIVERABLES AND DATES:**

Technical Progress Report	Monthly, due the 15th of the month
Item 1: Interim Report	November 1, 2000
Item 1: Final Report	December 31, 2000
Item 1: Presentation	December 1, 2000
Item 1: Presentation Update	April 1, 2001
TDRS-H Interim Payload Test Assessment Report	October 1, 2000
TDRS-H Final Payload Test Assessment Report	December 15, 2000
TDRS-H Performance Report	April 15, 2001

**PERFORMANCE STANDARDS:**

Schedule:	On-time delivery/completion of deliverables/milestone
Technical:	ATR's acceptance of the deliverables

**FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):**

Anthony B. Comberiate, building 12, room C004F